

VALVE ELECTRONIC CV 1674

GENERAL POST OFFICE: E-IN-C (S)

(POVT 106)

Specification: G.P.O./CV1674/Issue 1	<u>SECURITY</u>	
Dated: 4.11.46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

—→ indicates a change

<u>TYPE OF VALVE:</u> R.F. Pentode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Metallised glass <u>PROTOTYPE:</u> MS.Pen (mod)				<u>MARKING</u> See K1001/4	
				<u>BASE</u> British 7-pin (B7)	
<u>RATING</u>			<u>Note</u>	<u>CONNEXIONS</u>	
				<u>Pin</u>	<u>Electrode</u>
Heater voltage	(V)	4.0	A	1	Metallising
Nominal heater current	(A)	1.0		2	G1
Max. anode voltage	(V)	250		3	G3
Max. screen voltage	(V)	250		4	Heater
Max. anode dissipation	(W)	3.0		5	Heater
Mutual conductance	(mA/V)	5.5		6	Cathode
Anode impedance	(megohms)	1.0		7	G2
			A	T.C.	Anode
				<u>TOP CAP</u> See K1001/A1/D5.1	
<u>CAPACITANCES (pF)</u>				<u>DIMENSIONS</u>	
				See K1001/A1/D1	
Cag	(nominal)	0.009		<u>Dimension</u>	<u>Min.</u>
Cae	(nominal)	8.75			<u>Max.</u>
Cge	(nominal)	13.5		A (mm)	-
				B (mm)	127
					-
					48

NOTE**A.** Measured with $V_a = 200$, $V_{g2} = 100$, and $V_{g1} = -2$.

To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note	
							Min.	Max.			
(a)	See K1001/AIII					<u>CAPACITANCES (pF)</u>					
	Links to H.P.	Links to L.P.	Links to E								
	TC1	2	1,3,4,5,6,7, 8,9,10,TC2.				(i) Cag	0.003	0.015	6 per week	1
	TC1	1,3,4,5, 6,7	2,8,9,10, TC2				(ii) Cae	7.88	9.62	6 per week	1
	2	1,3,4,5, 6,7	8,9,10, TC1,TC2				(iii) Cge	12.15	14.85	6 per week	1
(b)	Test Voltage 200 Volts D.C.					<u>INSULATION (megohms)</u>					
						(i) G1 to all other electrodes	500	-	1%	1	
						(ii) G2 ditto.	200	-	1%	1	
						(iii) Anode to all other electrodes	200	-	1%	1	
	Vh	Va	Vg1	Vg2	Vg3						
(c)	4.0	-	-	-	-	Ih (A)	0.9	1.1	100%	1	
(d)	4.0	200	-2	100	-	Ia (mA)	4.1	8.9	100%	1	
(e)	4.0	200	-12	100	-	Ia (mA)	-	0.1	100%	1	
(f)	4.0	200	-1	100	-	gm (mA/V)	4.0	-	100%	1	
(g)	4.0	200	-2	100	-	Reverse Ig (μA)	-	1.5	100%	1	
(h)	4.0	200	-20	100	-	Reverse Ig (μA)	-	0.3	100%	1	

NOTE

- Before commencing the tests the valve shall be pre-heated for 10 minutes, the heater voltage being adjusted to 4 volts with all other electrodes disconnected.